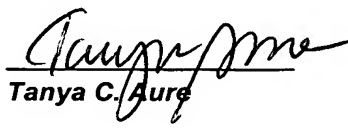




Docket No. 81595

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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|------------------|--------------------------|---|--|
| Applicant(s): | Lester L. Begg |) | I hereby certify that this correspondence is |
| | |) | being deposited with the United States |
| Application No.: | 10/621,277 |) | Postal Service with sufficient postage as |
| | |) | first class mail in an envelope addressed to: |
| Filed: | 07/16/2003 |) | Commissioner for Patents |
| | |) | P.O. Box 1450 |
| Title: | Single Crystal Tungsten |) | Alexandria, VA 22313-1450 |
| | Penetrator and Method of |) | on this date: |
| | Making |) | |
| | |) | 10/30/03 |
| Group Art Unit: | 1742 |) |  Tanya C. Aure |
| Examiner: | TBD |) | |

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

This Information Disclosure Statement is submitted:

 X Under 37 CFR §1.97(b) (within three months of the filing date of a national application or date of entry of an international application, or before the mailing date of a first Office Action on the merits, whichever occurs last).

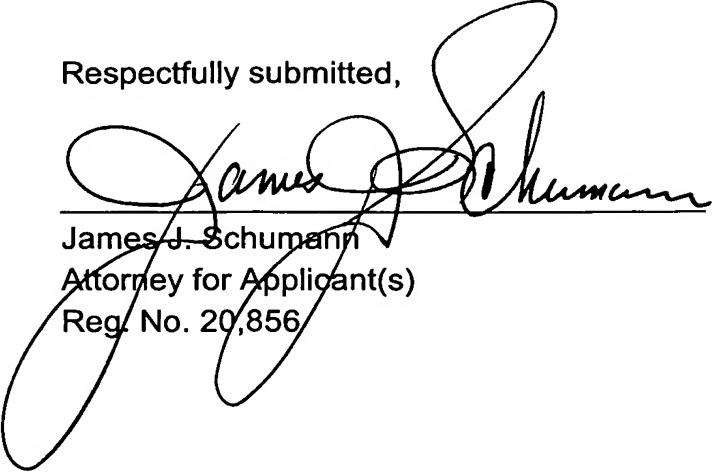
In accordance with the duty of disclosure imposed by 37 CFR § 1.56 to inform the Patent Office of all patents, publications, applications and other information known by Applicants or Applicants' representative that may be material to the examination of the subject application, Applicants' representative hereby provides this Information Disclosure Statement that is prepared in accordance with 37 CFR §§ 1.97-1.98 and includes Form PTO-1449 with one (1) references listed as items AA.

It is requested that the information provided herein be made of record in this application.

Dated:

OCT. 30, 2003


Respectfully submitted,



James J. Schumann
Attorney for Applicant(s)
Reg. No. 20,856

Address all Correspondence to:

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120 So. LaSalle Street
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|---|----------------------|----------------|
| Form PTO-1449 (Modified) INFORMATION DISCLOSURE CITATION IN AN APPLICATION  | Application No. | 10/621,277 |
| | Filing Date | 07/16/03 |
| | First Named Inventor | Lester L. Begg |
| | Group Art Unit | 1742 |
| | Examiner Name | |
| Sheet 1 of 1 | Attorney Docket No. | 81595/0703 |

| U.S. PATENT DOCUMENTS | | | | | | | | | |
|-----------------------|----------|---|------------------------------|----------------------------|-------------------------------------|---|-------|-----------|-------------|
| EXAMINER INITIALS* | CITE NO. | COPY NOT ENCLOSED PER 37 CFR § 1.98(d) | U.S. PATENT DOCUMENT | | NAME OF INVENTOR OR APPLICANT | DATE OF ISSUANCE OR PUBLICATION (MM-DD- YYYY) | CLASS | SUB CLASS | FILING DATE |
| | | | PATENT, PUB., OR APP. NO. | KIND CODE (if known) | | | | | |
| | | | | | | | | | |

| FOREIGN PATENT DOCUMENTS | | | | | | | | | | |
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| EXAMINER INITIALS* | CITE NO. | COPY NOT ENCLOSED PER 37 CFR § 1.98(d) | FOREIGN PATENT DOCUMENT | | | DATE OF PUBLICATION (MM-DD-YYYY) | CLASS | SUB CLASS | TRANSLATION | |
| | | | COUNTRY OR OFFICE (two-letter code) | DOCUMENT NO. | KIND CODE (if known) | | | | YES | NO |
| | | | | | | | | | | |

| OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS | | | |
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| EXAMINER INITIALS* | CITE NO. | COPY NOT ENCLOSED PER 37 CFR § 1.98(d) | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. |
| | AA | | CROWSON, ANDREW and CHEN, EDWARD S., "Tungsten and Tungsten Alloys-Recent Advances", The Minerals, Metals & Materials Society, USA XP002215753 (1991), pages 121-128. |
| | | | |

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|---|--|--------------------|--|
| Examiner Signature | | Date Considered | |
| *EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant. | | | |